

Yang Zhao

List of Publications by Year in descending order

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248
papers

21,693
citations

7087

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docs citations

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times ranked

19389
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Graphene Core-Sheath Microfibers for All-Solid-State, Stretchable Fibriform Supercapacitors and Wearable Electronic Textiles. <i>Advanced Materials</i> , 2013, 25, 2326-2331.	11.1	1,007
2	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502175.	10.2	756
3	Highly Compression-Tolerant Supercapacitor Based on Polypyrrole-mediated Graphene Foam Electrodes. <i>Advanced Materials</i> , 2013, 25, 591-595.	11.1	745
4	Gel Polymer Electrolytes for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702184.	10.2	674
5	Metal organic frameworks for energy storage and conversion. <i>Energy Storage Materials</i> , 2016, 2, 35-62.	9.5	483
6	Construction of CuS Nanoflakes Vertically Aligned on Magnetically Decorated Graphene and Their Enhanced Microwave Absorption Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5536-5546.	4.0	435
7	Recent developments and insights into the understanding of Na metal anodes for Na-metal batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2673-2695.	15.6	388
8	Superior performance of ordered macroporous TiNb ₂ O ₇ anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017, 34, 15-25.	8.2	351
9	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGO-Fe ₃ O ₄ composites. <i>RSC Advances</i> , 2013, 3, 23638.	1.7	346
10	Significant impact of 2D graphene nanosheets on large volume change tin-based anodes in lithium-ion batteries: A review. <i>Journal of Power Sources</i> , 2015, 274, 869-884.	4.0	343
11	Magnetic graphene@PANI@porous TiO ₂ ternary composites for high-performance electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6362-6370.	2.7	332
12	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. <i>Nanoscale</i> , 2013, 5, 3428.	2.8	307
13	Promoting the Transformation of Li ₂ S ₂ to Li ₂ S: Significantly Increasing Utilization of Active Materials for High-Sulfur Loading Li-S Batteries. <i>Advanced Materials</i> , 2019, 31, e1901220.	11.1	303
14	Superior Stable and Long Life Sodium Metal Anodes Achieved by Atomic Layer Deposition. <i>Advanced Materials</i> , 2017, 29, 1606663.	11.1	273
15	A capacity recoverable zinc-ion micro-supercapacitor. <i>Energy and Environmental Science</i> , 2018, 11, 3367-3374.	15.6	263
16	Site-Occupation-Tuned Superionic Li _x ScCl _{3+x} Halide Solid Electrolytes for All-Solid-State Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 7012-7022.	6.6	260
17	Inorganic-Organic Coating via Molecular Layer Deposition Enables Long Life Sodium Metal Anode. <i>Nano Letters</i> , 2017, 17, 5653-5659.	4.5	243
18	Sulfur-doped graphitic carbon nitride decorated with graphene quantum dots for an efficient metal-free electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1841-1846.	5.2	229

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19	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7979-7982.	7.2	211
20	Stabilizing the Interface of NASICON Solid Electrolyte against Li Metal with Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31240-31248.	4.0	207
21	Functional graphene nanomesh foam. <i>Energy and Environmental Science</i> , 2014, 7, 1913.	15.6	206
22	A Novel Organic Polyurea-Thin Film for Ultralong-Life Lithium-Metal Anodes via Molecular-Layer Deposition. <i>Advanced Materials</i> , 2019, 31, e1806541.	11.1	204
23	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 4524-4531.	11.1	201
24	All-solid-state lithium batteries enabled by sulfide electrolytes: from fundamental research to practical engineering design. <i>Energy and Environmental Science</i> , 2021, 14, 2577-2619.	15.6	201
25	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12355.	5.2	199
26	Addressing Interfacial Issues in Liquid-Based and Solid-State Batteries by Atomic and Molecular Layer Deposition. <i>Joule</i> , 2018, 2, 2583-2604.	11.7	198
27	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>CheM</i> , 2017, 3, 348-362.	5.8	194
28	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14384-14388.	7.2	191
29	A Versatile Sn-Substituted Argyrodite Sulfide Electrolyte for All-Solid-State Li Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903422.	10.2	183
30	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1035-1043.	8.8	176
31	Graphene fiber: a new material platform for unique applications. <i>NPG Asia Materials</i> , 2014, 6, e113-e113.	3.8	175
32	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. <i>Nature Communications</i> , 2018, 9, 4509.	5.8	175
33	Three-dimensional graphitic carbon nitride functionalized graphene-based high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6761-6766.	5.2	173
34	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2000030.	11.1	156
35	Size-Dependent Oxidation-Induced Phase Engineering for MOFs Derivatives Via Spatial Confinement Strategy Toward Enhanced Microwave Absorption. <i>Nano-Micro Letters</i> , 2022, 14, 102.	14.4	156
36	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2480-2488.	8.8	154

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37	Mesh Graphitic@Graphene for Highly Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1606352.	7.8	145
38	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. <i>Nano Energy</i> , 2018, 48, 35-43.	8.2	143
39	A Shape-Memory Supercapacitor Fiber. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15419-15423.	7.2	141
40	In Situ Li_3PS_4 Solid-State Electrolyte Protection Layers for Superior Long-Life and High-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2018, 30, e1804684.	11.1	140
41	One-pot hydrothermal synthesis of RGO/CoFe ₂ O ₄ composite and its excellent microwave absorption properties. <i>Materials Letters</i> , 2014, 114, 52-55.	1.3	137
42	An Air-Stable and Dendrite-Free Li Anode for Highly Stable All-Solid-State Sulfide-Based Li Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902125.	10.2	133
43	A fiber-shaped aqueous lithium ion battery with high power density. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9002-9008.	5.2	132
44	Crumpled reduced graphene oxide conformally encapsulated hollow V ₂ O ₅ nano/microsphere achieving brilliant lithium storage performance. <i>Nano Energy</i> , 2016, 24, 32-44.	8.2	132
45	Stabilizing interface between Li ₁₀ SnP ₂ S ₁₂ and Li metal by molecular layer deposition. <i>Nano Energy</i> , 2018, 53, 168-174.	8.2	132
46	Stimulus-responsive graphene systems towards actuator applications. <i>Energy and Environmental Science</i> , 2013, 6, 3520.	15.6	130
47	Molecular Layer Deposition for Energy Conversion and Storage. <i>ACS Energy Letters</i> , 2018, 3, 899-914.	8.8	123
48	Towards high performance Li metal batteries: Nanoscale surface modification of 3D metal hosts for pre-stored Li metal anodes. <i>Nano Energy</i> , 2018, 54, 375-382.	8.2	123
49	Insights into interfacial effect and local lithium-ion transport in polycrystalline cathodes of solid-state batteries. <i>Nature Communications</i> , 2020, 11, 5700.	5.8	122
50	Ti-Based Oxide Anode Materials for Advanced Electrochemical Energy Storage: Lithium/Sodium Ion Batteries and Hybrid Pseudocapacitors. <i>Small</i> , 2019, 15, e1904740.	5.2	121
51	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide "Polypyrrole Composite Films for Versatile Actuators. <i>ACS Nano</i> , 2016, 10, 4735-4741.	7.3	120
52	Natural SEI-Inspired Dual-Protective Layers via Atomic/Molecular Layer Deposition for Long-Life Metallic Lithium Anode. <i>Matter</i> , 2019, 1, 1215-1231.	5.0	120
53	Nanoscale Manipulation of Spinel Lithium Nickel Manganese Oxide Surface by Multisite Ti Occupation as High-Performance Cathode. <i>Advanced Materials</i> , 2017, 29, 1703764.	11.1	119
54	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17054-17060.	7.2	119

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55	Decoration of graphene network with metal-organic frameworks for enhanced electrochemical capacitive behavior. <i>Carbon</i> , 2014, 78, 231-242.	5.4	118
56	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. <i>Nano Energy</i> , 2018, 43, 368-375.	8.2	117
57	Stretchable supercapacitor at ~30 °C. <i>Energy and Environmental Science</i> , 2021, 14, 3075-3085.	15.6	114
58	Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2437-2442.	7.2	111
59	Vapor-Activated Power Generation on Conductive Polymer. <i>Advanced Functional Materials</i> , 2016, 26, 8784-8792.	7.8	110
60	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. <i>Energy Storage Materials</i> , 2020, 27, 117-123.	9.5	109
61	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021, 50, 3889-3956.	18.7	109
62	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019, 9, 9350-9358.	5.5	106
63	High Capacity, Dendrite-Free Growth, and Minimum Volume Change Na Metal Anode. <i>Small</i> , 2018, 14, e1703717.	5.2	104
64	Aligned carbon nanotube/molybdenum disulfide hybrids for effective fibrous supercapacitors and lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17553-17557.	5.2	103
65	Highly-stable P2-Na _{0.67} MnO ₂ electrode enabled by lattice tailoring and surface engineering. <i>Energy Storage Materials</i> , 2020, 26, 503-512.	9.5	101
66	Realizing both High Energy and High Power Densities by Twisting Three Carbon-Nanotube-Based Hybrid Fibers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11177-11182.	7.2	97
67	A seamlessly integrated device of micro-supercapacitor and wireless charging with ultrahigh energy density and capacitance. <i>Nature Communications</i> , 2021, 12, 2647.	5.8	97
68	Highly Stable Lithium Metal Anode Interface via Molecular Layer Deposition Zirconium Coatings for Long Life Next-Generation Battery Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15797-15802.	7.2	96
69	Antiperovskite Electrolytes for Solid-State Batteries. <i>Chemical Reviews</i> , 2022, 122, 3763-3819.	23.0	96
70	Manipulating Interfacial Nanostructure to Achieve High-Performance All-Solid-State Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900261.	4.6	90
71	Stabilizing and understanding the interface between nickel-rich cathode and PEO-based electrolyte by lithium niobium oxide coating for high-performance all-solid-state batteries. <i>Nano Energy</i> , 2020, 78, 105107.	8.2	88
72	Hybrid Energy Storage Device: Combination of Zinc-Ion Supercapacitor and Zinc-Air Battery in Mild Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7239-7248.	4.0	88

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73	PEO based polymer in plastic crystal electrolytes for room temperature high-voltage lithium metal batteries. <i>Nano Energy</i> , 2021, 88, 106205.	8.2	88
74	Oxygen-containing Functional Groups Enhancing Electrochemical Performance of Porous Reduced Graphene Oxide Cathode in Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 174, 762-769.	2.6	86
75	Polypyrrole-Based Composite Materials for Electromagnetic Wave Absorption. <i>Polymer Reviews</i> , 2021, 61, 646-687.	5.3	86
76	Superaligned Carbon Nanotubes Guide Oriented Cell Growth and Promote Electrophysiological Homogeneity for Synthetic Cardiac Tissues. <i>Advanced Materials</i> , 2017, 29, 1702713.	11.1	85
77	Atomic Layer Deposition of Lithium Niobium Oxides as Potential Solid-State Electrolytes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1654-1661.	4.0	85
78	Robust Metallic Lithium Anode Protection by the Molecular Layer Deposition Technique. <i>Small Methods</i> , 2018, 2, 1700417.	4.6	84
79	An Air-Stable and Li-Metal-Compatible Glass-Ceramic Electrolyte enabling High-Performance All-Solid-State Li Metal Batteries. <i>Advanced Materials</i> , 2021, 33, e2006577.	11.1	82
80	Synthesis and electrochemical characterizations of Ce doped SnS ₂ anode materials for rechargeable lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 93, 120-130.	2.6	80
81	Interface-assisted in-situ growth of halide electrolytes eliminating interfacial challenges of all-inorganic solid-state batteries. <i>Nano Energy</i> , 2020, 76, 105015.	8.2	80
82	A Type of 1 nm Molybdenum Carbide Confined within Carbon Nanomesh as Highly Efficient Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2018, 28, 1705967.	7.8	78
83	A Graphene Fibriform Responzor for Sensing Heat, Humidity, and Mechanical Changes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14951-14955.	7.2	77
84	Stabilization of all-solid-state Li-S batteries with a polymer-ceramic sandwich electrolyte by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23712-23719.	5.2	77
85	All-pH-Tolerant In-Plane Heterostructures for Efficient Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2021, 15, 11417-11427.	7.3	77
86	Electrolyte Dynamics Engineering for Flexible Fiber-Shaped Aqueous Zinc-Ion Battery with Ultralong Stability. <i>Nano Letters</i> , 2021, 21, 9651-9660.	4.5	77
87	Superionic conductivity in lithium argyrodite solid-state electrolyte by controlled Cl-doping. <i>Nano Energy</i> , 2020, 69, 104396.	8.2	76
88	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2156-2164.	8.8	76
89	Ultrafast Shaped Laser Induced Synthesis of MXene Quantum Dots/Graphene for Transparent Supercapacitors. <i>Advanced Materials</i> , 2022, 34, e2110013.	11.1	75
90	Composite Nanostructure Construction on the Grain Surface of Li-Rich Layered Oxides. <i>Advanced Materials</i> , 2020, 32, e1906070.	11.1	74

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91	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO ₂ batteries. Journal of Materials Chemistry A, 2020, 8, 2769-2776.	5.2	72
92	Facile preparation of RGO/Cu ₂ O/Cu composite and its excellent microwave absorption properties. Materials Letters, 2013, 109, 112-115.	1.3	71
93	An All-Solid-State Fiber-Shaped Aluminum-Air Battery with Flexibility, Stretchability, and High Electrochemical Performance. Angewandte Chemie, 2016, 128, 8111-8114.	1.6	70
94	Versatile Graphene Oxide Putty-Like Material. Advanced Materials, 2016, 28, 10287-10292.	11.1	68
95	Large-Scale Spinning Approach to Engineering Knittable Hydrogel Fiber for Soft Robots. ACS Nano, 2020, 14, 14929-14938.	7.3	64
96	Advanced High-Voltage All-Solid-State Li-Ion Batteries Enabled by a Dual-Halogen Solid Electrolyte. Advanced Energy Materials, 2021, 11, 2100836.	10.2	64
97	Decoupling atomic-layer-deposition ultrafine RuO ₂ for high-efficiency and ultralong-life Li-O ₂ batteries. Nano Energy, 2017, 34, 399-407.	8.2	63
98	On the Munn-Silbey approach to nonlocal exciton-phonon coupling. Journal of Chemical Physics, 1994, 100, 2335-2345.	1.2	62
99	Variational energy band theory for polarons: Mapping polaron structure with the Toyozawa method. Journal of Chemical Physics, 1997, 107, 3159-3178.	1.2	62
100	Preparation of hollow Zn ₂ SnO ₄ boxes for advanced lithium-ion batteries. RSC Advances, 2013, 3, 14480.	1.7	62
101	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. Nano Energy, 2019, 60, 111-118.	8.2	62
102	3D Vertically Aligned Li Metal Anodes with Ultrahigh Cycling Currents and Capacities of 10 mA cm ⁻² /20 mAh cm ⁻² Realized by Selective Nucleation within Microchannel Walls. Advanced Energy Materials, 2020, 10, 1903753.	10.2	62
103	Li ₂ CO ₃ Batteries Efficiently Working at Ultra-Low Temperatures. Advanced Functional Materials, 2020, 30, 2001619.	7.8	61
104	One-pot simplified co-precipitation synthesis of reduced graphene oxide/Fe ₃ O ₄ composite and its microwave electromagnetic properties. Materials Letters, 2013, 106, 22-25.	1.3	59
105	Atomic Layer Deposited Lithium Silicates as Solid-State Electrolytes for All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31786-31793.	4.0	58
106	Syntheses, structures and photoluminescent properties of a series of Ag(i) coordination architectures based on 2,4-diamino-6-methyl-1,3,5-triazine and dicarboxylates: from a 0D discrete molecule to a 3D infinite network. CrystEngComm, 2011, 13, 6431.	1.3	57
107	Unveiling the critical role of interfacial ionic conductivity in all-solid-state lithium batteries. Nano Energy, 2020, 72, 104686.	8.2	56
108	Direct spinning of fiber supercapacitor. Nanoscale, 2016, 8, 12113-12117.	2.8	55

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109	Self-healing electrostatic shield enabling uniform lithium deposition in all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019, 22, 194-199.	9.5	55
110	Origin of achieving the enhanced activity and stability of Pt electrocatalysts with strong metal-support interactions via atomic layer deposition. <i>Nano Energy</i> , 2018, 53, 716-725.	8.2	53
111	Temperature-Dependent Chemical and Physical Microstructure of Li Metal Anodes Revealed through Synchrotron-Based Imaging Techniques. <i>Advanced Materials</i> , 2020, 32, e2002550.	11.1	53
112	Gradiently Sodiated Alucone as an Interfacial Stabilizing Strategy for Solid-State Na Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2001118.	7.8	53
113	A self-healing zinc ion battery under -20 Å°C. <i>Energy Storage Materials</i> , 2022, 44, 517-526.	9.5	53
114	Elongating the cycle life of lithium metal batteries in carbonate electrolyte with gradient solid electrolyte interphase layer. <i>Energy Storage Materials</i> , 2021, 34, 241-249.	9.5	52
115	Insight into Prolonged Cycling Life of 4 V All-Solid-State Polymer Batteries by a High-Voltage Stable Binder. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	52
116	Modification and enhancement of cryogenic quenching heat transfer by a nanoporous surface. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 636-643.	2.5	51
117	<i>in situ</i> formation of highly controllable and stable Na ₃ PS ₄ as a protective layer for Na metal anode. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4119-4125.	5.2	51
118	High-Efficiency and Stable Li ⁺ /CO ₂ Battery Enabled by Carbon Nanotube/Carbon Nitride Heterostructured Photocathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	51
119	Electrospun SnO ₂ -ZnO nanofibers with improved electrochemical performance as anode materials for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14338-14344.	3.8	50
120	New insight into atomic-scale engineering of electrode surface for long-life and safe high voltage lithium ion cathodes. <i>Nano Energy</i> , 2017, 38, 19-27.	8.2	50
121	Facile synthesis of RGO/Fe ₃ O ₄ /Ag composite with high microwave absorption capacity. <i>Materials Letters</i> , 2013, 111, 188-191.	1.3	49
122	Improving Performance via Blocking Layers in Dye-Sensitized Solar Cells Based on Nanowire Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12824-12831.	4.0	49
123	A Sodiophilic Interphase-Mediated, Dendrite-Free Anode with Ultrahigh Specific Capacity for Sodium-Metal Batteries. <i>Angewandte Chemie</i> , 2019, 131, 17210-17216.	1.6	49
124	A Flexible Aqueous Zinc-Iodine Microbattery with Unprecedented Energy Density. <i>Advanced Materials</i> , 2022, 34, e2109450.	11.1	49
125	Ultrahigh-Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. <i>Small</i> , 2018, 14, e1803310.	5.2	48
126	Regulated lithium plating and stripping by a nano-scale gradient inorganic-organic coating for stable lithium metal anodes. <i>Energy and Environmental Science</i> , 2021, 14, 4085-4094.	15.6	48

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127	Graphene-Supported Ce/SnS_2 Nanocomposite as Anode Material for Lithium-Ion Batteries. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2190-2196.	1.9	47
128	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019, 9, 5365-5374.	5.5	47
129	Transition of the Reaction from Three-Phase to Two-Phase by Using a Hybrid Conductor for High-Energy-Density High-Rate Solid-State LiO_2 Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5821-5826.		47
130	Variational energy band theory for polarons: Mapping polaron structure with the Merrifield method. <i>Journal of Chemical Physics</i> , 1997, 106, 5622-5630.	1.2	46
131	Enabling ultrafast ionic conductivity in Br-based lithium argyrodite electrolytes for solid-state batteries with different anodes. <i>Energy Storage Materials</i> , 2020, 30, 238-249.	9.5	46
132	Stable Silicon Anodes by Molecular Layer Deposited Artificial Zincone Coatings. <i>Advanced Functional Materials</i> , 2021, 31, 2010526.	7.8	46
133	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. <i>Nano Energy</i> , 2019, 65, 103988.	8.2	45
134	Interconnected Molybdenum Carbide-Based Nanoribbons for Highly Efficient and Ultrastable Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24608-24615.	4.0	44
135	Tuning bifunctional interface for advanced sulfide-based all-solid-state batteries. <i>Energy Storage Materials</i> , 2020, 33, 139-146.	9.5	44
136	Recent advances in highly integrated energy conversion and storage system. <i>SusMat</i> , 2022, 2, 142-160.	7.8	44
137	Synthesis and properties of Li_2SnO_3 /polyaniline nanocomposites as negative electrode material for lithium-ion batteries. <i>Applied Surface Science</i> , 2012, 258, 9896-9901.	3.1	42
138	Preparation of hollow Zn_2SnO_4 boxes@C/graphene ternary composites with a triple buffering structure and their electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 147, 201-208.	2.6	42
139	Selective desorption of high-purity (6,5) SWCNTs from hydrogels through surfactant modulation. <i>Chemical Communications</i> , 2016, 52, 2928-2931.	2.2	42
140	Compact Assembly and Programmable Integration of Supercapacitors. <i>Advanced Materials</i> , 2020, 32, e1907005.	11.1	42
141	Comparing Electron Recombination via Interfacial Modifications in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20978-20984.	4.0	41
142	A 3D-printed ultra-high Se loading cathode for high energy density quasi-solid-state Li/Se batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 278-286.	5.2	41
143	Tuning ionic conductivity and electrode compatibility of Li_3YBr_6 for high-performance all solid-state Li batteries. <i>Nano Energy</i> , 2020, 77, 105097.	8.2	41
144	Dendrite-free and minimum volume change Li metal anode achieved by three-dimensional artificial interlayers. <i>Energy Storage Materials</i> , 2018, 15, 415-421.	9.5	40

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145	Making Fiber-Shaped Ni//Bi Battery Simultaneously with High Energy Density, Power Density, and Safety. <i>Advanced Functional Materials</i> , 2020, 30, 1905971.	7.8	40
146	Suppressed dendrite formation realized by selective Li deposition in all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2020, 27, 198-204.	9.5	40
147	Boiling and quenching heat transfer advancement by nanoscale surface modification. <i>Scientific Reports</i> , 2017, 7, 6117.	1.6	39
148	A directly swallowable and ingestible micro-supercapacitor. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4055-4061.	5.2	39
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